

1. A method of fixing an artificial disc replacement (ADR) to a vertebral  
2 endplate, comprising the steps of:  
    locating a component of the ADR in spaced-apart relation to the vertebral  
4 endplate; and  
    introducing cement between the component and the vertebral endplate.
2. The method of claim 1, wherein the component of the ADR is a rigid  
2 endplate.
3. The method of claim 1, wherein the component of the ADR is  
2 polyethylene or other suitable polymeric material.
4. The method of claim 3, wherein the component articulates with a second  
2 component.
5. The method of claim 4, wherein the second component is substantially  
2 rigid.
6. The method of claim 5, wherein the substantially rigid component is  
2 constructed of titanium, chrome cobalt, or ceramic.
7. The method of claim 1, wherein the cement includes an antibiotic.
8. The method of claim 1, further including the step of preparing a vertebra  
2 with hypotensive anesthesia prior to fixing the ADR.
9. The method of claim 1, further including the step of preparing a vertebra  
2 with a hemostatic agent prior to fixing the ADR.

10. The method of claim 1, further including the use of fluoroscopy during the  
2 step of cementing the ADR.

11. The method of claim 1, further including the step of forming a cement-  
2 receiving hole or cavity in a vertebral body.

12. The method of claim 1, wherein the component of the ADR includes one  
2 or more channels to direct the cement between the component and the vertebral endplate.

13. The method of claim 1, wherein the component of the ADR includes one  
2 or more grooves to direct the cement between the component and the vertebral endplate.

14. The method of claim 1, wherein the component of the ADR includes a rim  
2 that bears against the vertebral endplate, thereby forming a cavity to receive the injected  
cement.

15. The method of claim 1, further including the steps of:  
2 forming a passage through the vertebra having the endplate; and  
injecting the cement through the passage.

16. The method of claim 1, further including the step of pressing the  
2 component against the vertebral endplate until the cement cures.

17. The method of claim 1, wherein the step of introducing cement between  
2 the component and the vertebral endplate occurs before the endplate is placed in spaced-  
apart relation to the vertebral endplate.

18. The method of claim 17, wherein the step of introducing cement between  
2 the component and the vertebral endplate utilizes a separate tool that is removed before

the endplate is placed in spaced-apart relation to the vertebral endplate.

19. The method of claim 1, further including the step of shaping the vertebral  
2 endplate before introducing the cement.

20. A system including an artificial disc replacement (ADR) configured for  
2 placement between opposing vertebral endplates, the ADR comprising:  
a component forming a cavity between the component and one of the vertebral  
4 endplates; and  
a path to fill the cavity with cement.

21. The system of claim 20, wherein the path is formed in the component.

22. The system of claim 20, wherein the path is a channel or groove.

23. The system of claim 20, wherein the component includes a peripheral rim  
2 to form the cavity.

24. The system of claim 20, wherein the component is a rigid endplate.

25. The system of claim 20, wherein the component is polyethylene or other  
2 suitable polymeric material.

26. The system of claim 20, wherein the component is a rigid endplate.

27. The system of claim 20, further including an instrument for urging the  
2 component against the vertebral endplate until the cement cures.

28. The system of claim 20, further including an instrument for injecting the

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2 cement prior to insertion of the component.

29. The system of claim 20, further including an instrument for pressurizing  
2 the cement following introduction.

30. The system of claim 20, further including an instrument for removing  
2 excess, cured cement prior to placement of the ADR.

31. The system of claim 20, further including two components, one proximate  
2 to each of the opposing vertebral endplates; and  
paths for injecting cement between each component and its respective vertebral  
4 endplate.

32. The system of claim 20, wherein the component includes one or more  
2 protuberances to create a space for the cement.

33. The system of claim 20, wherein the protuberances are PMMA spacers.